

THE WORLD'S MOST POWERFUL SUBSEA TRENCHER CABLE BURIAL TRACTOR BT3200

The BT3200 uses a patented trenching system to create an open vee trench for seabed protection and stabilization of large diameter pipelines in hard ground. With triple chain cutters and four dredge pumps, BT3200 has the power to produce trenches down to 2m in rock up to 40MPa compressive strength and still operate in soft seabeds using a buoyancy system which reduces the submerged weight to 20 tonnes. The launch of BT3200 further enhances SMDs reputation as the world leaders in bespoke subsea trenching equipment.

FEATURES

- 2300kW of installed power
- 2m V-trench for rigid pipes
- 3.5m slot trench for flexibles
- 2 x 65te pipe handling
- 1.5m maximum pipe diameter
- 1.0m maximum flexible diameter
- 500m maximum water depth
- Robust proven buoyancy system
- SMD DVECS™ control system
- Containerised control and power system
- Jetting and dredge system for spoil clearance



SMD CUSTOMISATION SERVICE

SMD understand that every customer is different and therefore have individual needs from their systems. In order to meet your specific requirements SMD can customise our vehicles using our range of standard components to suit your preference and performance requirements.

SYSTEM SPECIFICATIONS

GENERAL

Depth rating.....	Up to 500m
Dimensions	
Length (including tools)	22.5m
Width	13.0m
Height	9.6m
Weight in air	200.0te
Submerged weight (minimum with buoyancy)	22.0te

PERFORMANCE

Trench depth	2.0m
Soil types.....Sands / clays / rock:	
.....from 12kPa shear strength	
..... to 40MPa UCS	
Soft ground capability.....	30kPa (with 100te pipe load)
Installed power	2300kW total
.....	4 x 400kW HPU
.....	2 x 350kW water pumps

MECHANICAL

Construction	High strength steel chassis
Wear parts	Replaceable wear-resistant steel
Other.....	Stainless steel fittings and housings

TRENCHING SYSTEM

Configuration	Triple hydraulic drive central chain
..... cutters and fwd and rear dredge system	
Trench Profile	2m vert. depth, 45 deg. sides
..... optional depths to 1.5m and 1m	
Chain Power:	
Chain 1	250kW
Chain 2	400kW
Chain 3	400kW
Chain Width	800mm
Chain Speed	Up to 3.2m/s
Chain Type	Heavy duty interleaved chain
..... configuration short and long carbide tips	
Dredge Configuration	Forward dredge pumps to clear
..... spoil in front of chains and rear	
..... dredge pumps clear spoil from trench.	
Dredge Power	4 x 80kW
..... heavy duty dredge pumps	
Jetting Configuration	Water pumps supply chain cleaning
..... jets, dredge pipe back flushing/ jetting	
Jetting Power	2 x 350kW direct drive
..... supply 2400m ³ /hr @ 7 bar	

BUOYANCY SYSTEM

Configuration	Four steel fabricated, open bottomed,
.....removable tanks. Air fed from surface	
Net buoyancy.....	140te combined
.....(2 x 26te and 2 x 44te)	
Tank weight in air	6te each
Valves.....	Hydraulically actuated vent valves

PIPE HANDLING

Configuration.....	Front and rear triple roller cradles with pipe
..... lifters for diverless post-lay loading and unloading.	
..... rear cradles allow lateral travel	
Maximum pipe diameter	1500mm
Pipe cradle load (each)	65te maximum
Pipe lifter load (each)	65te maximum
Pipe lifter travel	-800mm to 2200mm

PIPE TRACKING PACKAGE

Pipe detection and survey:	
Pulse Induction	TSS440
TSS 440 deployment	Hydraulically actuated frame
..... Adjustable 0.5 to 1.8m above seabed	

HYDRAULIC SYSTEM

Cylinders	Smart heavy duty marine type
Valves.....	Directional and counterbalance
Valve packs	Stainless steel, oil compensated
Manifolds, pipes and fittings	Stainless steel
Hoses	Multi-spiral flexible hoses
ROV intervention	Hot stab capability

SUBSEA SURVEILLANCE

Cameras.....	Up to 12
Lamps.....	Up to 24 x 250W dimmable subsea lamps
Pan and tilt.....	Up to 8 x robust P&T units
OA sonar	Tritech / Kongsberg
Profiling sonar.....	Tritech / Kongsberg / Multibeam
Acoustic positioning	to suit vessel
Gyro	Fibre Optic
Echosounder (optional)	Kongsberg

OTHER EQUIPMENT

Docking system.....	200te SWL sea state 5
..... Docking frame and bullet	
Control system.....	20ft ISO A60 container
Power system	3 off 20ft ISO A60 containers
Umbilical system.....	750m umbilical and 6te winch
Winch HPU.....	75kW deck mounted